

RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH

1600
RECEIVED
1434

AUG 28 2002
TECH CENTER 1600/2903
8-28-02

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/807,501C
Source: OIP
Date Processed by STIC: 8/7/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



Does Not Comply
Corrected Diskette Needed

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/807,501C

DATE: 08/07/2002
TIME: 12:48:38

Input Set : A:\EP.txt
Output Set: N:\CRF3\08072002\I807501C.raw

Global formatting error. Please contact Robert Wae at 703-306-4119 or 703-308-4216 for assistance.

1 <110> APPLICANT: Kimberly, Robert P.<120>
W--> 2 <130> FILE REFERENCE: UAB-14402/22<160> 33
W--> 0 <120> TITLE INVENTION:
W--> 3 <140> CURRENT APPLICATION NUMBER: US/09/807,501C
W--> 0 <160> NUMBER OF SEQ ID NOS:
3 <170> SOFTWARE: PatentIn version 3.1<210> 1<211> 18<212> DNA<213> other nucleic

ERRORED SEQUENCES

8 <210> SEQ ID NO: 2<211> 18<212> DNA<213> other nucleic acid<400> 2
W--> 9 <211> LENGTH:
W--> 9 <212> TYPE:
W--> 9 <213> ORGANISM:
E--> 9 <400> SEQUENCE:
9 tgtatttcgc aatgtttt 18
12 <210> SEQ ID NO: 3<211> 18<212> DNA<213> other nucleic acid<400> 3
W--> 13 <211> LENGTH:
W--> 13 <212> TYPE:
W--> 13 <213> ORGANISM:
E--> 13 <400> SEQUENCE:
13 acctgtaaat tatggtga 18
16 <210> SEQ ID NO: 4<211> 18<212> DNA<213> other nucleic acid<400> 4
W--> 17 <211> LENGTH:
W--> 17 <212> TYPE:
W--> 17 <213> ORGANISM:
E--> 17 <400> SEQUENCE:
17 tcaccataat ttacaggt 18
20 <210> SEQ ID NO: 5<211> 18<212> DNA<213> other nucleic acid<400> 5
W--> 21 <211> LENGTH:
W--> 21 <212> TYPE:
W--> 21 <213> ORGANISM:
E--> 21 <400> SEQUENCE:
21 gtgggtgttt ctttgaga 18
24 <210> SEQ ID NO: 6<211> 18<212> DNA<213> other nucleic acid<400> 6
W--> 25 <211> LENGTH:
W--> 25 <212> TYPE:
W--> 25 <213> ORGANISM:
E--> 25 <400> SEQUENCE:
25 tctcaaagaa acacccac 18
28 <210> SEQ ID NO: 7<211> 25<212> DNA<213> other nucleic acid<400> 7
W--> 29 <211> LENGTH:
W--> 29 <212> TYPE:

RAW SEQUENCE LISTING

DATE: 08/07/2002

PATENT APPLICATION: US/09/807,501C

TIME: 12:48:38

Input Set : A:\EP.txt

Output Set: N:\CRF3\08072002\I807501C.raw

```

W--> 29 <213> ORGANISM:
E--> 29 <400> SEQUENCE:
      29 ttatgcctat aatcccagct actca 25
      32 <210> SEQ ID NO: 8<211> 22<212> DNA<213> other nucleic acid<400> 8
W--> 33 <211> LENGTH:
W--> 33 <212> TYPE:
W--> 33 <213> ORGANISM:
E--> 33 <400> SEQUENCE:
      33 ctggggatat gggtaattga ag 22
      36 <210> SEQ ID NO: 9<211> 39<212> DNA<213> other nucleic acid<400> 9
W--> 37 <211> LENGTH:
W--> 37 <212> TYPE:
W--> 37 <213> ORGANISM:
E--> 37 <400> SEQUENCE:
      37 tgtaaaacga cggccagtc agcctgggtg acagagtga 39
      40 <210> SEQ ID NO: 10<211> 40<212> DNA<213> other nucleic acid<400> 10
W--> 41 <211> LENGTH:
W--> 41 <212> TYPE:
W--> 41 <213> ORGANISM:
E--> 41 <400> SEQUENCE:
      41 caggaaacag ctatgacct tagccctgtt agtgtgaact 40
      44 <210> SEQ ID NO: 11<211> 32<212> DNA<213> other nucleic acid<400> 11
W--> 45 <211> LENGTH:
W--> 45 <212> TYPE:
W--> 45 <213> ORGANISM:
E--> 45 <400> SEQUENCE:
      45 ggcggaggta cctataatc ccagctactc ag 32
      48 <210> SEQ ID NO: 12<211> 31<212> DNA<213> other nucleic acid<400> 12
W--> 49 <211> LENGTH:
W--> 49 <212> TYPE:
W--> 49 <213> ORGANISM:
E--> 49 <400> SEQUENCE:
      49 gttccgaagc ttggcagctg gtgagtcagg c 31
      52 <210> SEQ ID NO: 13<211> 29<212> DNA<213> other nucleic acid<400> 13
W--> 53 <211> LENGTH:
W--> 53 <212> TYPE:
W--> 53 <213> ORGANISM:
E--> 53 <400> SEQUENCE:
      53 aaatgaaaac attgtgaaat acaaagcag 29
      56 <210> SEQ ID NO: 14<211> 29<212> DNA<213> other nucleic acid<400> 14
W--> 57 <211> LENGTH:
W--> 57 <212> TYPE:
W--> 57 <213> ORGANISM:
E--> 57 <400> SEQUENCE:
      57 ctgctttgta ttccacaatg ttttcattt 29
      60 <210> SEQ ID NO: 15<211> 26<212> DNA<213> other nucleic acid<400> 15
W--> 61 <211> LENGTH:
W--> 61 <212> TYPE:
W--> 61 <213> ORGANISM:

```

RAW SEQUENCE LISTING

DATE: 08/07/2002

PATENT APPLICATION: US/09/807,501C

TIME: 12:48:38

Input Set : A:\EP.txt

Output Set: N:\CRF3\08072002\I807501C.raw

E--> 61 <400> SEQUENCE:
61 ttaacctgta agttatgggtg atcggc 26
64 <210> SEQ ID NO: 16<211> 26<212> DNA<213> other nucleic acid<400> 16
W--> 65 <211> LENGTH:
W--> 65 <212> TYPE:
W--> 65 <213> ORGANISM:
E--> 65 <400> SEQUENCE:
65 gccgatcacc ataacttaca ggttaa 26
68 <210> SEQ ID NO: 17<211> 26<212> DNA<213> other nucleic acid<400> 17
W--> 69 <211> LENGTH:
W--> 69 <212> TYPE:
W--> 69 <213> ORGANISM:
E--> 69 <400> SEQUENCE:
69 ataatgtata aaatagcatg caatta 26
72 <210> SEQ ID NO: 18<211> 26<212> DNA<213> other nucleic acid<400> 18
W--> 73 <211> LENGTH:
W--> 73 <212> TYPE:
W--> 73 <213> ORGANISM:
E--> 73 <400> SEQUENCE:
73 taattgcatg ctattttata cattat 26
76 <210> SEQ ID NO: 19<211> 30<212> DNA<213> other nucleic acid<400> 19
W--> 77 <211> LENGTH:
W--> 77 <212> TYPE:
W--> 77 <213> ORGANISM:
E--> 77 <400> SEQUENCE:
77 agtgagtggg tgtttgtttg agaagcagaa 30
80 <210> SEQ ID NO: 20<211> 30<212> DNA<213> other nucleic acid<400> 20
W--> 81 <211> LENGTH:
W--> 81 <212> TYPE:
W--> 81 <213> ORGANISM:
E--> 81 <400> SEQUENCE:
81 ttctgcttct caaacaaca cccactcact 30
84 <210> SEQ ID NO: 21<211> 18<212> DNA<213> other nucleic acid<400> 21
W--> 85 <211> LENGTH:
W--> 85 <212> TYPE:
W--> 85 <213> ORGANISM:
E--> 85 <400> SEQUENCE:
85 gcgaaatcca aaccagct 18

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

09/807501

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics
Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping"
- 2 ☐ Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☐ Misaligned Amino
Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 ☐ Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ Variable Length.
Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ PatentIn 2.0
"bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ Skipped Sequences
(OLD RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ Skipped Sequences
(NEW RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 ☐ Use of n's or Xaa's
(NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ☒ Invalid <213>
Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ☒ Use of <220>
Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 ☐ PatentIn 2.0
"bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.